triton duo 60™

COMPOSITE ABSORBER/ATTENUATOR CEILING PANEL

TECHNICAL DATA SHEET BPIR - CLASS 1

Acoustic Ceiling and Wall Solutions

triton duo 60™

Composite Absorber/Attenuator Ceiling Panel - ðw 1.0,NRC 0.95 CAC 44

Technical Data Sheet - BPIR Class 1

Triton Duo 60™ is a made in NZ mass loaded 60 mm thick composite ceiling panel designed to provide attenuation of flanking and transmitted sound as well as broad band sound absorption for reverberation control. Triton panels are available in a wide range of sizes and decorative colours, wood prints, perforated acoustic patterns and Hygiene laminates for design freedom.

Application

Triton Duo 60™ is ideal for ceilings under metal roofs to control rain noise, mechanical services, buildings near aircraft flight paths, train lines or for private meeting room ceilings.

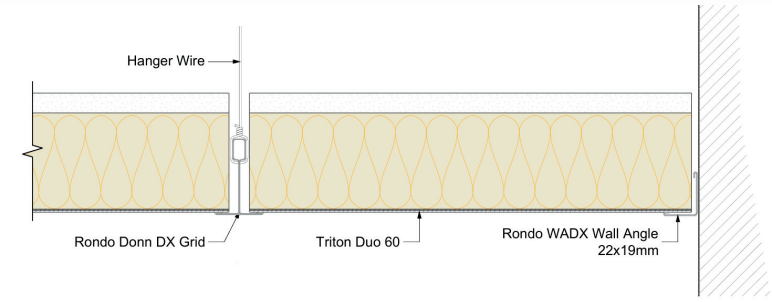
Composition

Manufactured in NZ from 50 mm 48 kg/m³ bio-soluble glass fibre core with 10mm plasterboard attenuator backer, 320 gsm Sonatex™ /Sonaris™ acoustic laminate finishes.

Features & Benefits

- Very high sound absorption, NRC 0.95, ðW 1.0 to reduce background noise and reverberation times.
- High mass attenuator backer, STC 20 dB, CAC 44 to attenuate rain noise under metal roofs, plenum noise and room to room attenuation over partition heads.
- **Ministry of Education DQLS V3.1 2024 compliant solution.**
- Fire Group 1-S.
- Broad range of Sonatex™ and Sonaris™ perforated acoustic laminate finishes for design freedom.
- Service panels available to order with temporary foil overlay, designed to protect the decorative finish on site during installation, remove prior to hand over.
- Made in NZ, short lead times including replacement parts.
- Packaging take back and reuse scheme available (NZ only).
- Product stewardship renew and reuse program.
- Global GreenTag Certified / Level A, low VOC, core contains 80% recycled post consumer waste glass.
- ISO 9001 registered quality management program.
- High light reflectance.
- Durable and dimensionally stable in high humidity.
- Custom sizes and finishes available.
- Optional Sonatex Hygiene laminate facing.

Technical Drawing



Detail: Triton Duo 60 ceiling tile suspended on Rondo Donn® DX1H Grid

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*All dimensions are nominal. We reserve the right to change specifications.

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Technical Specifications:

Item #	Size (nominal)*	Edge
TD60.0606	60 x 600 x 600 mm	A / Square
TD60.0612	60 x 600 x 1200 mm	A / Square
TD60.0618	60 x 600 x 1800 mm	A / Square
TD60.0624	60 x 600 x 2400 mm	A / Square

* Special sizes to order, consult Asona.

Sound Absorbtion Rating:
∂W 1.0; NRC 0.95 per ASTM C423, ISO 354 E-200. Test report T0516-10

Hz	125	250	500	1000	2000	4000
αp	0.50	0.70	1.00	1.00	1.00	0.95

Ceiling Attenuation Class:
CAC 44, DncW 44 Test reports UC 431

Hz	125	250	500	1000	2000	4000
dB	31	31	44	53	56	67

Environmental Impact:
Global GreenTag Certified, Level A, contains 80% recycled glass waste, low VOC <0.005 Mg/M²/hr per ASTM D5116.
Packaging return, panel Renew and Reuse programs.

Laminate Finishes:
Panels are available in standard Sonatex™ white, black, grey, wood prints, RAL colours and Sonaris™ perforated laminate finishes. Refer to online Sonatex™ and Sonaris™ finishes charts for colour and size options.
Also available with Sonatex Hygiene laminate facing.

Light Reflectance Value:
85% per BS8493:2008, White.

Limitations:
- For interior use only, and not in direct contact with water.
- Not for use with negative air return plenums.
- Maximum humidity/temperature 99% R/H at 45°C.
- Back loading max. 1.5kg/m², point loads to be independently supported.

Maintenance:
Clean with vacuum, soft brush or damp cloth. Re-surfacing of panels available, consult Asona.

NZ Building Act
This product is not subject to a warning or ban under Section 26.

NZ Building Code Compliance:
- B2 Durability – Clause B2.3.1 (c) (i): Asona ceiling tiles with only normal maintenance will have a minimum durability of at least 5 years when installed in accordance with; manufacturer's installation requirements and AS/NZS 2785:2020.
- C3 Fire – Clause C/AS2 4.12.1: Asona Triton Duo 60 has a Fire Material Group Number 1-S by NZBC Building Product Specification Parts 8.5.4 or 8.5.5, tested in accordance with ISO 9705 or ISO 5660.

Packaging Take Back Scheme:
Flat pack cartons on site and return to Asona for reuse.

Renew & Reuse Stewardship Program:
Soiled or damaged panels can be resurfaced with new Sonatex™ or Sonaris™ laminates for reuse in the ceiling. Helps extend life cycle and reduce construction waste. Register on practical completion.

Service Panel Protection:
Panels are available with removable protective foil covering to help keep panels clean during installation.

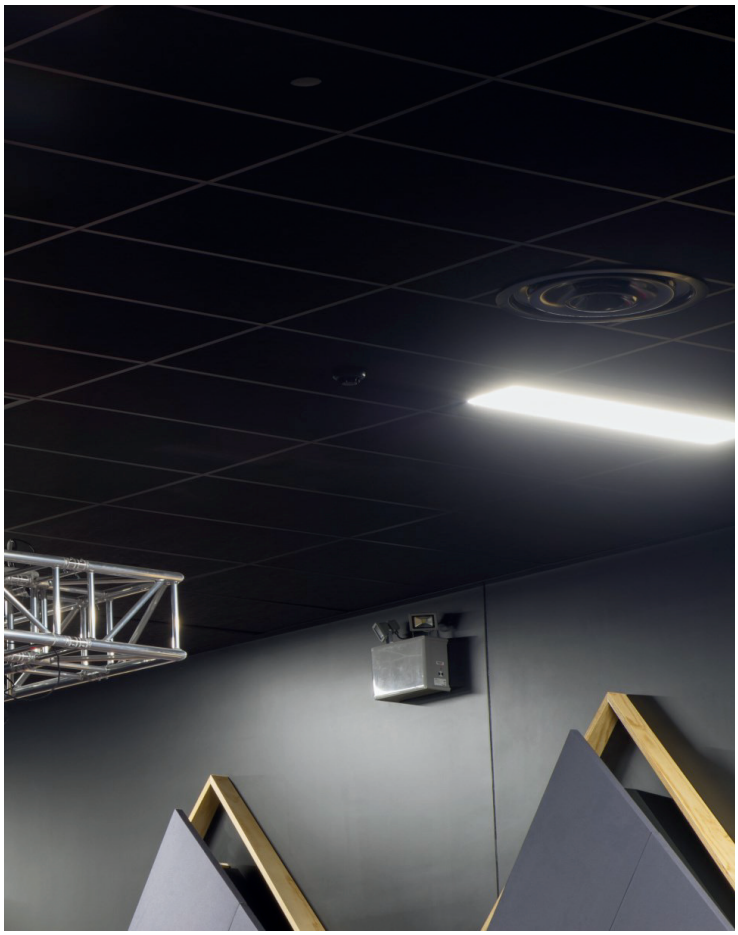

Photo: Haeata Community College

Thermal Resistance:
R 1.47 m²°C/W

Warranty:
15 year limited warranty against manufacturing defects, extendable to 30 years when registered for Asona's Renew and Reuse program and installed in Rondo Donn DX® exposed grid systems supplied by Asona.

Weight:
6.75 kg per 1194 x 594 mm panel, 9.5 kg/m²

Installation:
Shall not commence until the building is watertight and dry. This product is designed to be mounted into a Rondo Donn DX® two-way exposed grid system and installed to manufacturer's and AS/NZS 2785:2020 Standard's requirements. Seismic design may require a suitably qualified engineer. Hold down clips may be required in areas of wind uplift, and/or air grilles used to balance air pressure. Care shall be taken when handling tiles to avoid damage.

Specification:
Ceiling system shall be Asona Triton Duo 60™ composite sound attenuator/ absorber ceiling as manufactured by Asona Ltd Auckland NZ Tel: +64(0)9 525 6575 info@asona.co.nz. Selected panel shall be item # (_), size 60 x 600 x (_)mm, square edge with Sonatex finish (white) (black) (RAL colour #__) (wood-look print) (Sonaris perforated pattern#__), (Sonatex Hygiene laminate), sound absorption Class A, αW 1.00, NRC 0.95, CAC 44 dB, Fire Group 1-S. Suspension system shall be Rondo Donn DX® two way exposed grid system with 19 x 22 mm wall trim, grid colour (white) (black). Supply service panels with protective removable foil. Contractor shall flat pack packaging and return to Asona for reuse and register the ceiling with Asona Renew and Reuse product stewardship program on practical completion.
(Asona ceiling Masterspec 5311AS specification available).

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Sonatex™ - Acoustic Laminate Shades and Prints and LPL Finishes

Sonatex White to Black *

High NRC finish

A180 Standard White

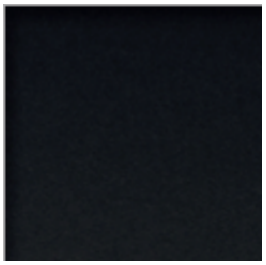
Hygiene Facing (not for Sonaris)

RAL 9002 White Grey

RAL 7040 Light Cool Grey

RAL 7030 Mid Warm Grey

RAL 7045 Mid Cool Grey



RAL 9011 Black

Colour options available *

Sonatex Wood Prints *

High NRC finish

(Roto gravure print on Sonatex, not to scale)

Wood print RAL 1013

Wood print RAL 1001 (TON 1127)

Wood print RAL 8019

Low Pressure Laminates

Woodlook *

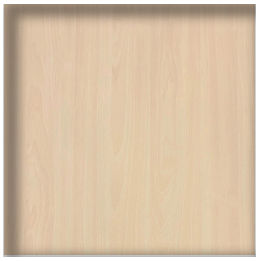
Reduced NRC performance unless perforated

LPL Kopenhagen

LPL Bleached Maple

LPL Tasmanian Oak

LPL Walnut



LPL Blond Maple

Contact Asona for samples:
Email: info@asona.co.nz
Phone: +64 (0) 9 525 6575

* Asona Sonatex is colour matched to the RAL Classic K7 range colours standard. The colour accuracy of this swatch card is dependent on your viewing screen and/or printer used. Digital print designs and custom colours are available to order, minimum quantity and lead times apply.

ISO 9001:2015 Registered Firm No. NZ1014
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Ref. Finishes-25.11

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